

Title (en)  
FLOOR SLAB PENETRATION STRUCTURE AND METHOD OF REPAIRING FLOOR SLAB PENETRATING HOLE

Title (de)  
BODENPLATTENDURCHDRINGUNGSSTRUKTUR UND VERFAHREN ZUR REPARATUR EINES  
BODENPLATTENDURCHDRINGUNGSLOCHES

Title (fr)  
STRUCTURE DE PÉNÉTRATION DE DALLE DE PLANCHER ET PROCÉDÉ DE RÉPARATION D'UN TROU DE PÉNÉTRATION DANS UNE  
DALLE DE PLANCHER

Publication  
**EP 2267245 A4 20130515 (EN)**

Application  
**EP 09725588 A 20090323**

Priority

- JP 2009055685 W 20090323
- JP 2008081161 A 20080326

Abstract (en)  
[origin: EP2267245A1] As a temporary drainage equipment, a penetration hole is formed to a floor slab of a building under construction, the penetration hole is provided with a substantially cylindrical funnel portion opened to a floor surface of a room, a connection pipe is communicated to a bottom portion of the funnel portion, and a hose guide pipe is inserted to the lower end portion of the connection pipe. An inner flange portion is provided to the lower end portion of the hose guide pipe so as to be flush with a ceiling surface of the downfloor room.

IPC 8 full level  
**E04G 21/28** (2006.01); **E04D 13/08** (2006.01); **E04G 15/06** (2006.01); **E04G 23/02** (2006.01)

CPC (source: EP US)  
**E04D 13/08** (2013.01 - EP US); **E04G 15/061** (2013.01 - EP US); **E04G 21/28** (2013.01 - EP US); **E04G 23/004** (2013.01 - EP);  
**E04G 23/0203** (2013.01 - EP US); **E04D 2013/0893** (2013.01 - EP US)

Citation (search report)

- [XYI] US 4261598 A 19810414 - CORNWALL KENNETH R
- [Y] US 3373467 A 19680319 - JOSEPH LOUGHREY
- [A] US 2006143813 A1 20060706 - REIER MATTHEW D [US], et al
- [A] US 2006066098 A1 20060330 - YEAGER BRYAN K [US], et al
- [A] JP S5833578 U 19830304
- See references of WO 2009119516A1

Citation (examination)  
JP H09242144 A 19970916 - ITO HARUHISA

Cited by  
CN104846978A; EP2267244A4; US8496023B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2267245 A1 20101229; EP 2267245 A4 20130515**; JP 5172948 B2 20130327; JP WO2009119516 A1 20110721;  
KR 101227606 B1 20130129; KR 20100128316 A 20101207; US 2011023395 A1 20110203; US 8230653 B2 20120731;  
WO 2009119516 A1 20091001

DOCDB simple family (application)  
**EP 09725588 A 20090323**; JP 2009055685 W 20090323; JP 2010505636 A 20090323; KR 20107021889 A 20090323; US 93476809 A 20090323